

PERIODIC TABLE PUZZLE

Name _____

Group Number

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

I																	
	F													G	H		
													B			A	
C								E					J				

		D															

Place the letter of each of the above elements next to its description below. Each answer may be used only once, so choose the best answer in each case.

1. An alkali metal _____
2. An alkaline earth metal _____
3. An inactive gas _____
4. An active nonmetal _____
5. A semimetal _____
6. An inner transition element _____
7. Its most common oxidation state is -2. _____
8. A metal with more than one oxidation state _____
9. Metal with an oxidation number of +3 _____
10. Has oxidation numbers of +1 and -1 _____



STUDY GUIDE

Chapter 10

The Periodic Table

Text Pages 255–262

1																	18			
1 H	2											13	14	15	16	17	2 He			
3 Li	4 Be											5 B	6 C	7 N	8 O	9 P	10 Ne			
11 Na	12 Mg	3	4	5	6	7	8	9	10	11	12	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar			
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr			
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe			
55 Cs	56 Ba	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn			
87 Fr	88 Ra	103 Lr	104 Unq	105 Unp	106 Unh	107 Uns	108 Uno	109 Une												

57 *La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Th	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	*Lanthanoid series #Actinoid series
89 #Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	

Use the periodic table above as needed to answer the following questions. Place your answers on the lines after the questions.

- List two types of information that are given in each box of this periodic table.
 - _____
 - _____
- In this table, where are the metals located? _____
- Where are the nonmetals located? _____
- What are the elements in groups 3 through 12 called? _____
- What are the elements called that are next to the stair-step-shaped line on the right side of the table? _____
- What do we call the letter or group of letters that represents an element? _____
- How many elements are included in the modern periodic table? _____
- What name is given to the elements in group 18? _____
- What name is given to all vertical columns in this table? _____
- What name is given to each horizontal row in this table? _____